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**1. Document ID: EP 207069 A1**

Entry 1 of 2

File: EPAB

Dec 30, 1986

PUB-NO: EP000207069A1

DOCUMENT-IDENTIFIER: EP 207069 A1

TITLE: Method for the separation or cutting of, especially a plane material, and device of carrying it out.

PUBN-DATE: December 30, 1986

## INVENTOR-INFORMATION:

NAME	COUNTRY
PETERS, HENNING DR-ING	N/A
TRIEB, FRANZ ING	N/A

## ASSIGNEE-INFORMATION:

NAME	COUNTRY
VER EDELSTAHLWERKE AG	AT

APPL-NO: EP86890181

APPL-DATE: June 19, 1986


PRIORITY-DATA: AT00190685A (June 26, 1985)

INT-CL (IPC): B26F 3/00

EUR-CL (EPC): B26F003/00

## ABSTRACT:

The invention relates to a method and a device for separating especially sheet-like material (7) by means of intersecting jets (31, 32) of a medium, preferably water, emitted from nozzles (21, 22) arranged on both sides of the material, the jets on the one hand and the especially sheet-like material on the other hand being moved relative to one another. For separating workpieces (7) made of self-supporting, essentially rigid materials, preferably with covering layers (71, 72) held together with a honeycomb-like inner structure (23), on the one hand the workpiece (7) and on the other hand at least one set of two interacting fluid-medium jets (31, 32), emitted at a high pressure of at least 700 bars from nozzles (21, 22) arranged on both sides of the workpiece at a respective distance (b, c) from its main faces (711, 721) and meeting one another within the workpiece variably and fixably, preferably at an angle (  $\gamma$  ) relative to one another, each of the high-pressure fluid-medium jets (31, 32) meeting one another being kept directed, essentially over the entire cutting path, on the main faces (711, 721) of the workpiece (7) at an

angle (  $\alpha$  ,  $\beta$  ) differing significantly from 90 DEG . 

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Clip Img	Image
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2. Document ID: EP 207069 A, AT 8501906 A

Entry 2 of 2

File: DWPI

Dec 30, 1986

DERWENT-ACC-NO: 1986-341335

DERWENT-WEEK: 198652

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TITLE: Flat material cutting system - uses high-pressure jets meeting at adjustable angle at middle

INVENTOR: PETERS, H; TRIEB, F

PATENT-ASSIGNEE: ; VER EDELSTAHLWERKE AG[; BOHL]

## PRIORITY-DATA:

1985AT-0001906

June 26, 1985

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 207069 A</u>	December 30, 1986	G	023	N/A
AT 8501906 A	October 15, 1987	N/A	000	N/A

DESIGNATED-STATES: DE FR GB IT NL SE

CITED-DOCUMENTS:1.Jnl.Ref; JP51142186 ; US 3526162 ; US 3996825

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
EP 207069A	June 19, 1986	1986EP-0890181	N/A

INT-CL (IPC): B26F 3/00

ABSTRACTED-PUB-NO: EP 207069A

## BASIC-ABSTRACT:

The sytem cuts through flat material (7), using jets of water under pressure (31,32) discharged from nozzles (21,22) on either side and moved in relation to it. To cut through material of honeycomb structure contained between covering layers, the jets are at a pressure of at least 700 and pref. 1000 bar, meeting at an adjustable angle at the middle and moving in relation to each other.

During the entire cutting operation the jets strike the work surface at an angle other than 90 deg.

USE - Gives clean cut at each surface with min. damage to internal structure.

CHOSEN-DRAWING: Dwg.2/8

TITLE-TERMS: FLAT MATERIAL CUT SYSTEM HIGH PRESSURE JET ADJUST ANGLE MIDDLE

DERWENT-CLASS: P62

## SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1986-254705

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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